

# 2006 Spring Migration Counts in North Carolina

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Seventeen North Carolina count areas submitted data for the 2006 spring migration count, five from the mountains, 11 from the piedmont/upper coastal plain, and one from the coast. The counts were carried out between 29 April and 27 May, with five of the counts carried out on the North American Migration Count day, 13 May. Most of the piedmont counts were completed in late April or early May. The two new mountain counts were completed in late May because they covered largely high-elevation areas where spring arrives late.

A total of 408 participants counted 85,980 individuals and 232 species in 1218 party-hours. Although total birds, party-hours, and participants were greater than last year, total number of species was slightly lower (239 in 2005). Nevertheless, several uncommon species were located, including three Mississippi Kites, a Scissor-tailed Flycatcher, two Lark Sparrows, seven Black Scoters, a Northern Saw-whet Owl, two Gray-cheeked Thrushes, a Connecticut Warbler, three Wilson's Warblers, and 19 Red Crossbills. Fifty-three species (23% of the total) were located in only one count area. The majority of these were in Onslow County, the only count area in the coastal plain. Twenty-eight species (12% of the total) were found in every count area. Count areas with species exclusive to those counts are listed in Table 1.

Table 1. Number of species exclusive to a count

<b>Mountains</b>	<b>Piedmont</b>	<b>Coastal Plain</b>
Transylvania County—3	Jordan Lake—2	Onslow County—36
Balsam Mountains—3	Durham—2	
Henderson County—3	Southern Pines—2	
Buncombe County—1		
Black Mountains—1		

There were 21 species exclusive to the mountains, 18 exclusive to the piedmont, and 36 exclusive to the coastal plain. They are listed in Table 2.

Spring counts have been carried out for over 50 years in North Carolina, and in the next issue of *The Chat* a variety of species will be analyzed for trends over time. Over this half-century, with the exception of the 1980s, count results have been published in *The Chat*. The count areas themselves have varied over the years, but a few have been covered fairly consistently since the 1950s including Raleigh, Chapel Hill, Greensboro, and Winston-Salem. These counts in particular provide a wealth of data on changing bird

Table 2. Species exclusive to a region.

<b>Mountains</b>		
American Wigeon	Yellow-bellied Sapsucker	Sedge Wren
Blue-winged Teal	Alder Flycatcher	Marsh Wren
Northern Shoveler	Willow Flycatcher	Cerulean Warbler
Ring-necked Duck	Least Flycatcher	Connecticut Warbler
Virginia Rail	Black-capped Chickadee	Dark-eyed Junco
Black-billed Cuckoo	Brown Creeper	Red Crossbill
Northern Saw-whet Owl	Winter Wren	Pine Siskin
<b>Piedmont</b>		
Mute Swan	Northern Harrier	Horned Lark
Bufflehead	Merlin	Bank Swallow
Hooded Merganser	Pectoral Sandpiper	Gray-cheeked Thrush
Anhinga	American Woodcock	Blue-winged Warbler
Yellow-crowned Night- Heron	Scissor-tailed Flycatcher	Lark Sparrow
Mississippi Kite	Loggerhead Shrike	Grasshopper Sparrow
<b>Coastal</b>		
Black Scoter	Semipalmated Plover	Short-billed Dowitcher
Northern Gannet	Piping Plover	Laughing Gull
Brown Pelican	American Oystercatcher	Gull-billed Tern
Least Bittern	Willet	Royal Tern
Snowy Egret	Whimbrel	Sandwich Tern
Little Blue Heron	Ruddy Turnstone	Common Tern
Tricolored Heron	Red Knot	Least Tern
Cattle Egret	Sanderling	Black Skimmer
White Ibis	Semipalmated Sandpiper	Saltmarsh Sharp-tailed Sparrow
Clapper Rail	Dunlin	Seaside Sparrow
Sora	Stilt Sandpiper	Painted Bunting
Black-bellied Plover		Boat-tailed Grackle
Wilson's Plover		

populations over time, at least from the piedmont. Other piedmont counts started later, but have been consistent since then. From the coast and the coastal plain, counts were more numerous in the early years, but ceased in more recent years. Areas formerly covered with some regularity included Wilmington, Beaufort, Morehead City, New Bern, Rocky Mount, and a few others. Now the only count representing the coast is Onslow County, and in the coastal plain only a couple of counts on the edge of the coastal plain/piedmont. More representation from this area would provide better balance for comparisons over time.

Counts in the mountain area began much later than in other areas, so comparisons with early years are not possible. Even when these counts began there were often relatively few participants, and/or most of the count areas were in the mountain valleys. This year two mountain counts were conducted almost entirely in the extensive forest and higher-elevation areas of the mountains. These counts helped give a more balanced representation of the actual bird life in the mountains. Of course count areas throughout the state are largely dictated by where the birders live, and most birders live in the more populated areas. Thus, there will probably never be balanced representation throughout the state, but those interested in starting counts in the under-represented areas would be encouraged.

Details of each individual count including names of compilers and participants, and count highlights follow:

## **Count Area Details**

### ***Mountains***

**Transylvania County—count date 13 May, 118 species, 4010 individuals, 38 participants, 65.00 party-hours.**

Weather: 40–67°F, partly sunny, windy in afternoon.

Compiler: Norma Siebenheller (sieb@citcom.net)

Participants: Kathryn and Dennis Allen, Marvin and Michele Barg, Kathy Bartt, Dorothy Bauer, Dick Blee, Pat Bohan, Gladys and Art Brintnall, Kristin Connor, John Devlin, Elizabeth Galloway, Jeanne Grimmenga, Bill and Jean Hough, Jack Hudson, Nancy and Tom Iha, Morgan and Betty Jones, Mike Judd, Ludwig Kempe, Ruth Klock, Joe Kotowski, Nilsa Lobdell, Pam Maher, Betty McIlwain, Carolyn and Rick Mills, Beth and Speed Rogers, Mary Sauerteig, Ed Schwartzman, Norma and Bill Siebenheller, Sam and Marge Woodruff, Camille Ziegler

Exclusives: American Wigeon, Northern Shoveler, Ring-necked Duck

Notes: With 38 observers and fairly good weather conditions in our favor, the count for the day came to 118 species, one of the highest totals ever recorded here. Only the 1993 and 1999 scores of 119, and the 123 achieved in 1992, are higher for this area. Among the notable sightings of the day were Common Loon and Northern Shoveler at Ecusta pond; American Wigeon at an area lake; and two Purple Finches and a White-throated Sparrow at various feeders. We were also able to record all three of the expected owl species (Barred, Great Horned, and Eastern Screech) from homeowners who hear them regularly at night.

Of course there are always a few that are missed, and among these were Eurasian Collared-Dove, which has been missing lately from its usual Brevard haunts, and both Winter Wren and Brown Creeper, which were silent and out of sight at Devil's Courthouse when the Parkway team reached their neighborhood. The Cerulean Warbler has not been found this spring at Buck Spring trailhead and was not discovered anywhere else. Swainson's Warbler could not be located on count day (though one has been, since). And

the Hermit Thrush that was singing along the Parkway last year was silent—if it's even present—and thus not added to our lists.

Warblers were found, for the most part, by those birders who can identify them by sound, and often missed by those who rely only on actual sightings, as the latter were hampered by the late date and the thickness of leaf cover.

Norma Siebenheller

**Great Balsam and Plott Balsam Mountains IBA—count date 20 May, 81 species, 3163 individuals, 17 participants, 73.50 party-hours.**

Weather: Varied with elevation, foggy and cool at higher elevations, warmer and partly cloudy to clear at lower elevations, 45–75°F. Windy in the morning.

Compiler: Marilyn Westphal (mjwestphal@unca.edu)

Participants: Beth Brinson, Lou Dwarshuis, Tom Flagg, Cathy King, Marilyn Kolton, Gail and Charlie Lankford, Tim Lewis, Bob Olthoff, Len and Esther Pardue, Kate Queen, Steve Semanchuk, Ray Sharpton, Jim Stone, Lou Weber, Marilyn Westphal

Exclusives: Alder Flycatcher, Least Flycatcher, Black-capped Chickadee

Notes: The first-ever Balsam Mountains Spring Bird Count was held on 20 May with 17 participants in eight teams. Although the weather started out pre-dawn with thunderstorms and heavy rains, fortunately it passed through before the sun rose. Some mountain-peak areas remained windy and foggy most of the morning, but other areas cleared, and the forest trails were calm. The area covered extended from north of Mt Pisgah to the Smokies along the Blue Ridge Parkway, and included the Shining Rock and Middle Prong Wilderness areas. Since most of the area is in the National Park and National Forest lands, includes several large grassy and heath balds, and is relatively high-elevation (much of it above 4500 feet), species that dominate those areas were the most numerous on the count. A total of 81 species were found. Most common birds in order of abundance were: Dark-eyed Junco (326), Chestnut-sided Warbler (310), Eastern Towhee (248), American Robin (176), Golden-crowned Kinglet (163), Blue-headed Vireo (155), Black-throated Blue Warbler (141), Cedar Waxwing (124), Canada Warbler (105), and Black-throated Green Warbler (100). There were still a few late migrants coming through such as Cape May, Bay-breasted, and Blackpoll Warblers, Ruby-crowned Kinglet, and White-throated Sparrows, and some that may or may not have been migrants such as Yellow-rumped Warbler, Cerulean Warbler and Hermit Thrush. Hermit Thrushes were suspected breeding birds in this mountain range in 2005 and they may very well be breeding birds again in 2006.

Marilyn Westphal

**Henderson County—count date 13 May, 120 species, 2474 individuals, 15 participants, 38.25 party-hours.**

Weather: Temperature 45–75°F, mostly sunny, calm in morning, light to moderate wind in afternoon.

Compilers: Jim and Barbara Neal (jlbjneal@bellsouth.net)

Participants: Bill Fisk, Wayne Forsythe, Richard Gibbs, Charlotte Goedsche, Andrea Hessey, Richard Leppingwell, Mike McCurdy, Ron Metcalf, Nora Murdock, Janie Owens, Barbara Neal, Harvey Neal, Ron Selvey, Marilyn Westphal

Exclusives: Blue-winged Teal, Marsh Wren, Connecticut Warbler

Notes: A new record was set on Saturday, 13 May 2006 for the number of species seen or heard on the annual Spring Migration Count in Henderson County. The 120 species topped the previous record by five. In nine years we have found a low of 103 in 2001 and highs of 115 in 1998 and 2004, until this new record. There were 15 people out on a mostly sunny day, with temperatures ranging from a low around 40°F in the early morning to 70°F in the afternoon, covering the nine sections of the county that we normally cover. In spite of the record number of species and the great weather, the total number of birds was the third lowest at 2474. While we beat last year's 2269 and 1999's low of 2015, we didn't come close to our previous high of 3705 set in 2002. Finding three species not previously seen in the county on Spring Migration Count day and the record 120 species were the highlights of the day. The three new species were the American Coot, the Eurasian Collared-Dove, and the Cliff Swallow. The Eurasian Collared-Dove has expanded its territory to include Henderson County, and the other two are usually breeding elsewhere. We missed a few birds that had been found on one or more counts, but finding a record 120 species and three new species that have never been seen on the count in previous years made it a great day.

Jim Neal

**Buncombe County—count date 14 May, 115 species, 4879 individuals, 19 participants, 74.20 party-hours.**

Weather: Cool, 40–65°F depending on elevation, light to moderate winds, partly cloudy to cloudy.

Compiler: Marilyn Westphal (mjwestphal@unca.edu)

Participants: Kevin Caldwell, Lou Dwarshuis, Peggy Franklin, Charlotte Goedsche, Doug Johnston, Marilyn Kolton, Gail and Charlie Lankford, Andrew Laughlin, Tim Lewis, Bob Olthoff, Naomi Otterness, Janie Owens, Len Pardue, Steve Semanchuk, Liz Skiles, Sarah Urquart, Lou Weber, Marilyn Westphal.

Exclusives: Virginia Rail

Notes: It was a cool day for the Buncombe County migration count held on Sunday, 13 May with 19 participants. A total of 115 species and 4879 individuals were found, about average for the Buncombe count. The count area is a mix of forest and open country at a wide range of elevations. Most species were at average numbers, but many of the woodland birds showed somewhat lower numbers than usual, particularly several warblers, vireos, and woodpeckers. Red-bellied and Hairy Woodpecker and Northern Flicker numbers were at all-time lows. Also, unusually low numbers of Blue-headed (48) and Red-eyed Vireos (86), Chestnut-sided (25), Black-throated Blue (54), Black-throated Green (50), Blackburnian (27), Ovenbird (64—record

low), and Hooded Warblers (54) were found. Record high numbers of Wild Turkey (24), Northern Bobwhite (10, including one at over 5000 feet elevation), Brown-headed Nuthatch (10), Veery (20), American Robin (320), Warbling Vireo (7), House Finch (102), and, unfortunately, Brown-headed Cowbird (40) were found.

For the first time Canada Warblers led the list in warbler numbers with 70. A record number of 11 Hermit Thrushes were found, 10 of them between Craggy Visitors Center and Balsam Gap. Although some of these may have been transients, several were probably breeding birds. Also unusual for the count was a Virginia Rail at an elevation over 5000 feet in Craggy Gardens sitting in a laurel thicket, and discovered by visiting birder Tom Driscoll. Other unusual finds were a Black-billed Cuckoo, also at Craggy Gardens, two Sedge Wrens at Warren-Wilson College, and a Yellow-bellied Sapsucker, probably a breeding bird, north of Bull Creek Valley overlook on the Blue Ridge Parkway.

Marilyn Westphal

**Black Mountains IBA—count date 27 May, 53 species, 1186 individuals, 11 participants, 31.25 party-hours.**

Weather: Cool, 40–75°F depending on elevation, windy, mostly clear.

Compiler: Marilyn Westphal (mjwestphal@unca.edu)

Participants: Kevin Caldwell, Charlotte Goedsche, Doug Johnston, Gail and Charlie Lankford, Andrew Laughlin, Steve Semanchuk, Ray Sharpton, Jim Stone, Tom Tribble, Marilyn Westphal

Exclusives: Northern Saw-whet Owl

Notes: The Black Mountains IBA Spring Count was held on Saturday, 27 May in fine weather, although quite windy on the mountain ridges in the morning. The Black Mountains are the highest mountain range east of the Mississippi River and include Mount Mitchell and several other peaks above 6000 feet. The late date of the count was quite suitable for this area. Even in late May many of the trees had not yet leafed out. Eleven participants in four groups covered mainly higher-elevation areas around Mount Mitchell, but also some lower areas around the Black Mountains campground. Unlike the Balsam Mountains count, no large balds are covered in this area and the bird population reflects largely high-elevation forest species. For this reason, the order of abundance is somewhat different on this count than on the Balsam Mountains count where Chestnut-sided Warblers dominated. In the forest the Black-throated Green Warbler takes over, and Golden-crowned Kinglets are almost never out of earshot. Fewer total birds were counted largely because there were fewer people counting, and they covered a smaller area. A total of 59 species were found. Top ten species in order of abundance were: Golden-crowned Kinglet (197), Dark-eyed Junco (174), Black-throated Green Warbler (76), Canada Warbler (55), Winter Wren (53), Blue-headed Vireo (50), Blackburnian Warbler (49), Chestnut-sided Warbler (44), Eastern Towhee (42), and Black-throated Blue Warbler (41). Interesting finds were a couple of Yellow-rumped Warblers that may have been late migrants or may

have been breeding birds, a healthy population of 17 Hermit Thrushes—probably largely breeding birds, a lingering Swainson's Thrush, an Eastern Meadowlark on Mount Mitchell, a family of three Louisiana Waterthrushes in the Black Mountain campground, a flock of 18 Red Crossbills about a mile or two north of Mt Mitchell on the Blue Ridge Parkway, and an Eastern Saw-whet Owl calling briefly just after dark at Balsam Gap. Strangest absentee from the count was Rose-breasted Grosbeak.

Marilyn Westphal

### ***Piedmont***

**Catawba County—count date 13 May, 102 species, 2109 individuals, 7 participants, 25 party-hours.**

Weather: Clear, 35–75°F.

Compiler: Dwayne Martin (redxbill@charter.net)

Participants: Andrea Bruns, Dwayne Martin, Lori Martin, Monroe Pannell, Frank Porch, Blair Rayfield, John Sutton

Exclusives: none

Notes: The 2006 Catawba County spring migration count was held on Saturday, 13 May. The weather was clear with a very cool 35 degrees in the morning and a high of 75 in the afternoon. We did about average with 102 species. The best bird of the day was an Anhinga seen by John Sutton flying over Bakers Mountain Park in the southwestern part of the county. This was a first for the count. The other first for the count was two Herring Gulls seen on Lake Norman. Other good birds included Caspian Tern and Forster's Tern, also seen on Lake Norman. Misses included any owls (no owling was attempted), Wild Turkey, and Northern Bobwhite.

Dwayne Martin

**Forsyth County—count date 13 May, 123 species, 5430 individuals, 40 participants, 82.50 party-hours.**

Compiler: Linda Davis (davisl@mindspring.com)

Participants: Kay Bergey, John Cardarelli, John and Lee Carter, Larry and Linda Davis, Phil Dickinson, David and Susan Disher, Cynthia Donaldson, Margaret and Gardner Gidley, Bill Gifford, Bill and Susan Hammond, John Hammond, Myrna Harris, Alcee Hecht, Bert Hollifield, Elaine Hopkins, Harriet and Royce Hough (and son Henry), Bill Jackson, Warren and Susan Leake Jones, Ray Kandt, Barbara and Leon Kendrick, Ellen Kirkman, Jim Martin, Ann and Sven Halling Newsome, Paul Powers, Jeremy Reiskind, Chester and Ann Robertson, Sue Rupp, Gene Schepker, Lois Schneider, David Shuford, Ina Stanton, Cynthia Thompson, Jeff Turner, Gray Tuttle

Exclusives: none

Notes: none

**Greensboro—count date 6 May, 130 species, 8428 individuals, 35 participants, 121.00 party-hours.**

Compiler: Herb Hendrickson (hhendrickson@triad.rr.com)

Participants: Louise Brown, Dennis Burnette, Lynn Burnette, Beth Bursuck, Dan Chambers, Sue Cole, Phil Crisp, Scott DePue, Judi Durr, Larry Gasper, Herb Hendrickson, Phillip Kellam, Jane Lewis, Elizabeth Link, Henry Link, Clarence Mattocks, Gregg Morris, Lynn Moseley, Jean Murdick, Sandy Post, Danny Royster, Deborah Sharp, Tony Sharp, Tom Shepherd, Wallace Sills, Dirk Simmons, Quint Simmons, Lou Skrabec, Joann Smith, Ann Somers, Lauren Spence, Johnathan Thielen, Ann Walter-Fromson, Melissa Whitmire, Anthony Woodyard.

Exclusives: none

Notes: none

**Southern Pines—count date 7 May, 134 species, 5154 individuals, 24 participants and 4 feeder-watch.**

Compiler: Susan Campbell (susan@ncaves.com)

Participants: Brady Beck, Kerry Brust, Carol Bowman, Susan Campbell, Jay Carter, Dick Dole, Lois Dole, Charlotte Gantz–feeder, Scott Hartley, Erich Hoffman, Pat Hoffman–feeder, Tom Howard, Wayne Irvin, Linda Jones, David McCloy, Michael McCloy, Carolyn McDermott, Dan Pieroni, Bob Perkins, Patrick Shaffner, Bruce Sorrie, Mary Stephenson–feeder, Lowell Strine, Susan Strine, Vaud Travis–feeder, Rosalyn Walk, Libba Watson, Cassie Willis

Exclusives: Scissor-tailed Flycatcher, Lark Sparrow

Notes: Despite very stormy conditions most of the day, we did very well this year. Even through the rain and wind, the birds were active. Not surprisingly, numbers of individuals were down but we still managed 135 species. We had several lingering winter birds (Red-breasted Merganser, Northern Harrier, Red-breasted Nuthatch) as well as some later migrants (Yellow-billed Cuckoo, Common Nighthawk, Yellow-breasted Chat) represented as well. The biggest highlight was a male Scissor-tailed Flycatcher in Horse Country. Also two male Lark Sparrows were found singing on territories on Ft. Bragg. Although this species is a local breeder in the Sandhills, it is quite rare and has not been found on count day in the past.

Susan Campbell

**Chapel Hill—count date 6 May, 125 species, 11,384 individuals, 45 field participants, 151.30 party-hours, 8 feederwatch.**

Weather: low 60°F, high 81°F; no rain; wind NW 5–10 mph; partly cloudy-clear.

Compiler: Will Cook (cwcook@duke.edu)

Participants: Amy and Kim Aycrigg, Sam Baron, Brian Bockhahn, Jane Brinkley, Norm Budnitz, Derb Carter, Bob Chase, Will Cook, Anson Cooke, Dwayne Cooke, Tom and Barbara Driscoll, Colyer Durovich, Kent Fiala, Maurice Graves, Steven Graves, Perry Haaland, Rachel Harden, Alan

Johnston, Fred and Eleanor Kilgour (feeder), John Kim, Betty King, Alan Kneidel, Jim and Alice Lash (feeder), Lisa Merschel, David Murdock, Judy Murray, Martine Nehrig, Candice Owens (feeder), Harry and Carolina Pederson (feeder), Gervasio Piñeiro, Steve Quinley, Becky Rosser, Barbara Roth, Harriet Sato, Mike and Lois Schultz, Doug Shadwick, Jacob Socolar, Marsha Stephens, Elvin Strowd (feeder), Michael Szpir, Edith Tatum, Judy Teague, Shelley Theye, Pam Timmons, Ginger Travis, Amalie Tuffin, Carol Williamson

Exclusives: none

Notes: The 2006 Chapel Hill spring count on May 6 wasn't nearly as spectacular as last year's, but we still did pretty well, with 125 species and 11,382 individual birds, both slightly above the 10-year average of 123 species and 10,637 birds. We had a near-average number of groups (24) and counters (45), and the 151.3 party-hours was just slightly below the average of 156.7.

We found only a few rarities this time around, unlike last year, when they seemed to be dripping from the trees. Highlights included a pair of Hooded Mergansers found by Judy Murray at Jordan Lake, our fourth straight report. Last year in the same location one young was seen, the first local nesting evidence. Pied-billed Grebes were another highlight, our first since 1991, with singles reported by both Pam Timmons's and Betty King's parties. And for the second year in a row, the team of Betty King, Barbara Roth, and Judy Teague observed a Yellow-crowned Night-Heron at the New Hope Creek Waterfowl Impoundment on NC 54. Other goodies included eight Chuck-will's-widows (seven heard by Jacob Socolar, one by Norm Budnitz), a Bank Swallow (Derb Carter), and a Hermit Thrush (Doug Shadwick), and a Canada Warbler (Tom Driscoll's party).

We set record highs for 12 species: we had 25 Bald Eagles (ties 2003), eight Chuck-will's-widows (previous high just one!), 88 Acadian Flycatchers (81 in 1992), 108 Great Crested Flycatchers (80 in 2005), 75 Fish Crows (55 in 2002), an astounding 585 Carolina Wrens (512 in 2005) and 61 House Wrens (45 in 2005), 119 Gray Catbirds (112 in 2005), seven Magnolia Warblers (ties 1986), 53 Prothonotary Warblers (52 in 2005), 143 Summer Tanagers (130 in 2001), and 57 Song Sparrows (53 in 2003).

We missed Northern Bobwhite for only the second time ever. This was not unexpected, however, since we've only averaged just six for the last 10 counts. They used to be much more common in the area, averaging 92 during the years 1960–1985. However, Eastern Meadowlark, another declining species found in similar habitats as Bobwhite, actually did fairly well this year, with a count of 33 vs. last year's record low three. Another big miss this year was Northern Waterthrush—we average seven on a count and hadn't missed this fairly common migrant since 1965. Also unusually low: Northern Flicker (lowest since 1974), European Starling (lowest since 1975), American Redstart, Louisiana Waterthrush, and Blue Grosbeak.

Honors for highest species total this year go to the Mason Farm team (Will Cook, Lisa Merschel, Steve Quinley, John Kim, Gervasio Piñeiro,

Michael Szpir, and Martine Nehrig) with 86 species, followed by Brian Bockhahn with 80 species in the Stagecoach Road area. The team of Tom and Barbara Driscoll and Colyer Durovich had the highest individual tally, with 1147 birds (71 species) in the Eastwood Lake and Turkey Farm Road areas.

Charles W. "Will" Cook

**Jordan Lake—count date 7 May, 126 species, 7024 individuals, 51 participants, 117.50 party-hours.**

Weather: Low 53°F, high 63°F; wind 0–10 mph; overcast, intermittent showers to heavy rain.

Compiler: Norm Budnitz (Norman.budnitz@duke.edu)

Participants: Patsy Bailey, Barbara Beaman, Todd Bishop, Norm Budnitz, Harold Carter, Barbara Coffman, Patrick Coin, Chip Conrad, Will Cook, Anson and Dwayne Cooke, Sue Ellett, Perry Haaland, Marty Girolami, Walton Haywood, Russell Herman, Carl and Loren Hintz, Dale Hutchinson, Betty King, Tom Krakauer, Terry Logue, Jennifer Maher, Melinda Meade, Kyle Mills, Micky Mills, Robin Moran, Judy Murray, Rick Payne, Barbara Roth, Bob Rybczynski, Harriet Sato, Lois and Mike Schultz, Doug Shadwick, Jennifer Shoemaker, Josh and Sterling Southern, Brian Strong, Judy Teague, Pam Timmons, Ginger Travis, Andy Upshaw, Willem VanEck, Margaret Vimmerstedt, Carol Williamson, Sue Wilson, Bob Winstead

Exclusives: Bufflehead, Pectoral Sandpiper

Notes: There are those who would say that 7 May 2006 was an ugly day. At 5:30 AM it was 63 °F and overcast. Cool, but not too bad. It was all downhill from there. The rains, which weren't supposed to come until mid-afternoon, kicked in shortly after 6:15 AM and kept most of us cold and wet all day. By noon, the temperature had fallen to 53°F. At least the wind didn't add much to the misery, only maxing to about 10 mph. But your compiler has always maintained that bad weather brings good birds. Was that true this year? Read on.

Forty-nine observers in 22 parties counted 7024 individuals (certainly lower than our 10-year average: 8643) of 126 species (right on our 10-year average: 126), during 118 hours in the field (10-year average: 147). So the brave souls who hung in there found a goodly number of species, just not as many individuals of those species. That's okay.

In spite of the rain, or maybe because of it, we did turn up some rather unusual birds. Ginger Travis, kayaking White Oak Creek, found a Common Moorhen. The last time we had a Moorhen on our count was one bird in 1979, when they were still called Common Gallinules! Will Cook found four Buffleheads (one male and three females) on Harris Lake. We get Buffleheads on our Christmas count, but this is only the third spring sighting. Mike and Lois Schultz and Tom Krakauer found three Pectoral Sandpipers at the wastewater settling ponds near Poplar Point (last reported in 1990). Bob Rybczynski turned in a thorough report of a Gray-cheeked Thrush. Though

the bird wasn't singing, he reported its call note and even compared it later to a recording of Bicknell's Thrush on Cornell's website. Josh and Sterling Southern turned up a Blue-winged Warbler, last seen on our count in 1998. And, having invoked the bad weather rule, your compiler would have been red-faced if he and Patsy Bailey hadn't found a Wilson's Warbler, last seen on the count in 1996. Also, Harold Carter reported a count period Greater Yellowlegs at Harris Lake. (Count period is three days before to three days after count day.)

We did not generate any record high numbers for regularly occurring species—not surprising, given the weather. But we didn't miss many species that we should expect to see either; Cooper's Hawk and American Kestrel were two.

Norm Budnitz

**Durham—count date 30 April, 119 species, 6371 individuals, 18 participants, 70.50 party-hours.**

Weather: Low 38°F, high 67°F; wind NE at 5–15 mph; mostly cloudy, no precipitation.

Compiler: Mike Schultz (ross.gull@verizon.net)

Participants: Patsy Bailey, Brian Bockhahn, Norm Budnitz, Will Cook, Diana Davis, Tom Driscoll, Colyer Durovitch, Dan Kaplan, Tom Krakauer, Brian Murphy, Judy Murray, Chad Schoen, Lois Schultz, Michael Schultz, Doug Shadwick, Jonathan Steere, Jon Stelwegan, Amalie Tuffin

Notes: Most noteworthy of this count was the scarcity of observers! We only fielded 17 birders in 11 parties; however our totals in both species and individual categories were right at our 10-year average, so I guess we all worked extra hard to make up for our shortage. We were even able to set new high numbers for seven species. Five of those were abundant species: Downy Woodpecker, Great Crested Flycatcher, Carolina Wren (second year in a row at a new high), Eastern Bluebird (also second year in a row), and Indigo Bunting. Black-throated Blue Warbler and Yellow-breasted Chat also set new highs.

The Anhinga was a flyby in downtown Durham seen during count period by Dan Kaplan. Dan is one of our most experienced observers so I have not asked for details for a count period bird. In his e-mail to me about the bird's location, Dan did mention its distinctive profile. I did not include Dan as a party or observer in the above total since he was unable to be with us on count day. (We do have one previous record of Anhinga on the Durham count.)

Mike Schultz

**Wake County—count date 13 May, 116 species, 4041 individuals, 29 participants, 61.50 party-hours.**

Compiler: John Connors (John.Connors@ncmail.net)

Participants: Julie Angerman-Stewart, John Argentati, Joe Bearden, Karen Bearden, Brian Bockhahn, Jerome Brewster, Richard Brown, Charles Bryan, Louise Bryan, Halbert Carmichael, Ben Cohen, John Connors, Jaap

Folmer, Lena Gallitano, Ann Hicks, Vernon Janke, Mark Johns, Will Kimler, Kyle Kittleberger, Jim Mulholland, Bob O'Brien, Mike Pollard, Mike Sanderson, Harriet Sato, Patricia Savage, Roger Shaw, Clyde Smith, Nathan Tam, Kari Wouk

Exclusives: none

Notes: Some interesting observations include Anhinga (1) soaring over Anderson Point Park, a first for the count!; Great Egret (5), Ruddy Duck (1) for the second year at NCSU farm ponds, King Rail (1) calling at Mid Pines, Lesser Yellowlegs (3), Tree Swallow (2), Swainson's Thrush (3), Veery (2), Loggerhead Shrike (5) family at Lake Benson, Warbling Vireo (1) at Anderson Point Park, 24 species of warblers, many of which were abundant, including Yellow (6), Chestnut-sided (2), Magnolia (6), Black-throated Blue (25), Black-throated Green (1), Blackburnian (1), Prairie (5) on territory at Greenview, Palm (1), Blackpoll (16), Black-and-white (11), American Redstart (31), Northern Waterthrush (4), Wilson's Warbler (1), and Canada Warbler (2). Rose-breasted Grosbeak (2), Savannah Sparrow (1), and Baltimore Oriole (2) were also observed. Significant misses include: Hooded Merganser, which wasn't found at Yates Mill Pond; Northern Bobwhite returned to missing in action; nightjars were completely absent, in fact, none were heard during the count week period; Grasshopper Sparrow and Bobolink were not found at either NCSU farms or near Schenk Forest.

Cliff Swallows continue nesting in northern Wake County along Neuse River bridges. Great Blue Heron colonies are shrinking—nest trees have been falling and birds have not found other suitable trees over water. Reports of a large colony in tall pines along Swift Creek were not yet surveyed. Purple Martin colonies are now established at Prairie Ridge Preserve (two nests), and at NC Museum of Art (one nest) in addition to NCSU University Club with a couple of dozen nests. Field Sparrow, Prairie Warbler and Yellow-breasted Chat were on territory at Greenview Pond.

John Connors

**Falls Lake—count date 1 May, 112 species, 4083 individuals, 13 participants, 77.25 party-hours.**

Weather: Low 52°F, high 67°F; wind 5 mph; cloudy-partly cloudy, no precipitation.

Compiler: Brian Bockhahn (cbockhahn4@earthlink.net)

Participants: Karen Berry, Brian Bockhahn, Chuck Border, Amy Corbally, Dave Lenat, Trish MacPherson, Brandy Mangum, Deborah Robertson, Harry Shoffner, Sterling Southern, Deck Stapleton, Sabrina Thompson, Amalie Tuffin

Exclusives: none

Notes: The third-ever Falls Lake spring count tallied 112 species, finally breaking the century mark after two years of 99! The intrepid work of our 13 birders made the difference. New to the count this year was an impressive Least Sandpiper at Rollingview and a long-awaited Green Heron in area 8A. Some other great finds were second count records of House Wren at Camp

Kanata, and Lesser Yellowlegs and Chestnut-sided Warbler at Sandling Beach. Third records include Hermit Thrush at Lick Creek, Swainson's Thrush at Blue Jay Point, Worm-eating Warbler in Woodpecker Ridge and Black-throated Green Warblers (found by two parties). Misses were Common Loon, Spotted Sandpiper, any non-Ring-billed Gulls, Caspian Tern and Louisiana Waterthrush. There were low numbers of sparrows, Eastern Wood-Pewee and cuckoos.

Brian Bockhahn

**Kerr Lake—count date 2 May, 118 species, 3852 individuals, 9 participants, 44.50 party-hours.**

Weather: Low 42°F, high 77°F; wind 0–12 mph; partly cloudy; no precipitation.

Compiler: Brian Bockhahn (cbockhahn4@earthlink.net)

Participants: Brian Bockhahn, Will Cook, Adam D'Onofrio, Bryce Fleming, Donna Juettner, Dave Lenat, Grace McCrowell, Harry Shoffner, Deck Stapleton

Exclusives: none

Notes: With seven birders we tallied 118 species, one more than the last year (117) with seven people but two less than our record first year (120) with only four counters! It is very refreshing to finally have consistent birders covering the same areas for each count. This is why I usually push into the 90s for species totals; I've got my area down pat. In the next few years the Kerr Lake CBC and SBC should continue to surpass all totals. Some amazing first records were an Anhinga at Dick Cross and a Warbling Vireo in Area 1/Eagle Point. Good second-record birds were Blue-winged Warbler, Greater Yellowlegs and Veery. Two parties had Red-breasted Mergansers, three parties had Green Herons, and there were also several Great Egrets seen. The only misses were accipiters and Rose-breasted Grosbeaks. The weather was perfect with only a few clouds and a light breeze. Given that the migration season was early and quick this year, this early May date was ideal. Early enough for a lingering Bonaparte's Gull but late enough for the pewees and cuckoos to arrive!

Brian Bockhahn

**Raven Rock State Park—count date 29 April, 119 species, 4094 individuals, 18 participants, 54.25 party-hours.**

Weather: low 44°F, high 69°F; wind east at 0–11 mph; clear.

Compiler: Paul C. Hart

Exclusives: none

Participants: Jim Bateson, Adam Efird, Paul Hart, Merlin Hartley, Scott Hartley, Tom Howard, Bobby Lutfy, Thomas McKimmon, Charlotte Oleynik, Robert Perkins, Sue Pulsipher, Karin Reese, Kevin Reese, Mitch Reese, Larry Rose, Sarah Stevens, Erik Thomas

Notes: Although not a record count in terms of number of species seen, a good total number was tallied. The number of individuals counted is below the average of 4635 counted over the past five years. Missing from the count

this year were Bald Eagle, Lesser Yellowlegs, American Woodcock, and Blue-headed Vireo. Mississippi Kite is becoming a regular find on this count, having been seen for three springs in a row. Scott Hartley was able to photograph one flying overhead. A single Swainson's Thrush was found by Adam Efir, the first appearance of this species on the count since 1999. The wastewater treatment plant in Lillington has traditionally been a good spot for shorebirds and ducks. It is currently undergoing construction with the renovation of the treatment lagoons. It remains to be seen how this construction will affect the birding opportunities.

Paul C. Hart

### **Coast**

**Onslow County—count date 13 May, 156 species, 8298 individuals, 19 participants, 55.00 party-hours.**

Weather: Low 51°F, high 76°F, light wind and clear skies.

Compiler: Jim O'Donnell (odjljl@charter.net)

Participants: Clancy Ballenger, Sam Bland, Rich and Susan Boyd, Jamie and Susan Cameron, John Fussell, Al Gamache, Buddy Garrett, Barbara Gould, Gilbert S. Grant, Martin Korenek, Carmen Lombardo, Jim and Laura O'Donnell Sr., Mark Shields, Tim Trott

Exclusives: 36 species, see list in coastal plain section above

Notes: The weather was perfect for count day, a low of 51°F with a high of 76°F, light wind and clear skies. We had the second-highest species total for this count of 157 this year, with three new species, Black Scoter, Peregrine Falcon and a Wilson's Snipe. Other birds of note were late American Redstart, Black-throated Blue, Yellow-rumped, and Yellow Warblers. Two teams had White-rumped Sandpiper, and one had Stilt Sandpiper. A frequently missed bird was a Gull-billed Tern found in Camp Lejeune. A new high of at least three Bald Eagles was seen. Four teams spotted eagles, but one may have been counted twice.

Jim O'Donnell

Table 3. 2006 spring counts in North Carolina

Date	Transylvania	Balsam Mts	Henderson	Buncombe	Black Mts	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
																		total	mountains	piedmont	coastal
Count Type	NAM	IBA	NAM	circle	IBA	NAM	circle	circle	circle	circle	circle	circle	NAM	circle	circle	circle	NAM				
Canada Goose	59		87	118		64	313	612	168	358	126	221	276	94	59	93	96	2744	0.94	2.71	1.75
Mute Swan								2	1									3	0.00	0.00	0.00
Wood Duck	21		9			2	13	14	37	72	28	44	9	10	30	10	10	309	0.11	0.31	0.18
American Wigeon	5																	5	0.02	0.00	0.00
American Black Duck							2										26	28	0.00	0.00	0.47
Mallard	22		56	76		18	98	233	63	87	52	54	97	36	10	10	40	952	0.55	0.86	0.73
Blue-winged Teal			2															2	0.01	0.00	0.00
Northern Shoveler	2																	2	0.01	0.00	0.00
Ring-necked Duck	2																	2	0.01	0.00	0.00
Black Scoter																	7	7	0.00	0.00	0.13
Bufflehead											4							4	0.00	0.00	0.00
Hooded Merganser										2		1						3	0.00	0.00	0.00
Red-breasted Merganser									6						1		3	10	0.00	0.01	0.05
Ruddy Duck													1				40	41	0.00	0.00	0.73

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr				
																		total	mountains	piedmont	coastal	
Duck sp.											2							2	0.00	0.00	0.00	
Ruffed Grouse	1	3		1							2							5	0.02	0.00	0.00	
Wild Turkey	2		1	23			1	1		4	7	7		13	5	5	7	76	0.09	0.05	0.13	
Northern Bobwhite	1			10				4	14		1	2		4	6	19	41	102	0.04	0.06	0.75	
Common Loon	1						1	1	1		1				9		2	16	0.00	0.01	0.04	
Pied-billed Grebe							1			2							4	7	0.00	0.00	0.07	
Northern Gannet																	81	81	0.00	0.00	1.47	
Brown Pelican																	152	152	0.00	0.00	2.76	
Double-crested Cormorant	2						6	1	84	8	140	436	406	22	194	214	28	84	1625	0.01	1.75	1.53
Anhinga							1							1	1			3	0.00	0.00	0.00	
Least Bittern																	4	4	0.00	0.00	0.07	
Great Blue Heron	5		4				15	5	127	18	180	133	83	18	68	34	20	17	727	0.03	0.80	0.31
Great Egret			1							1	2			5		3	67	82	0.00	0.02	1.22	
Snowy Egret																	25	25	0.00	0.00	0.45	
Little Blue Heron																	2	2	0.00	0.00	0.04	
Tricolored Heron																	5	5	0.00	0.00	0.09	
Cattle Egret																	102	102	0.00	0.00	1.85	
Green Heron	5		9	2			1	4	18	9	11	8	5	7	1	3	5	9	97	0.06	0.08	0.16
Yellow-crowned Night-Heron																			10	0.00	0.01	0.00
White Ibis																	9	9	0.00	0.00	0.16	
Black Vulture	7		7	4			19	16	73	10	41	22	13	1	19	16	7	1	256	0.06	0.27	0.02
Turkey Vulture	53	10	63	31	6	42	31	54	10	154	96	64	25	104	56	81	117	997	0.58	0.81	2.13	
Osprey						2	1	6	1	14	36	18		31	9	2	32	152	0.00	0.14	0.58	

																birds per party-hr					
	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total	mountains	piedmont	coastal
Date	5/13	5/20	5/13	5/14	5/27	5/13	5/13	5/6	5/7	5/6	5/7	4/30	5/13	5/1	5/2	4/29	5/13				
Mississippi Kite								2								1		3	0.00	0.00	0.00
Bald Eagle						1		6	2	25	17	8	4	10	5		3	81	0.00	0.09	0.05
Northern Harrier							1		1							1		3	0.00	0.00	0.00
Sharp-shinned Hawk			1					2		3	1	3		1		1		12	0.00	0.01	0.00
Cooper's Hawk				1				6	2	2		3	1			1		27	0.00	0.03	0.00
<i>Accipiter</i> sp.												3					1	4	0.00	0.00	0.02
Red-shouldered Hawk	4		1	3				17	5	33	15	18	20	8	4	14	9	166	0.03	0.17	0.16
Broad-winged Hawk	6	8		5	6	3	1	3	1	1	1	1		1	1	1	1	40	0.09	0.02	0.02
Red-tailed Hawk	3	1	4	6	2	5	21	37	3	37	6	16	13	9	7	28	8	206	0.06	0.21	0.15
<i>Buteo</i> sp.											2							2	0.00	0.00	0.00
American Kestrel	1		2			1	1	2	2				2			1		12	0.01	0.01	0.00
Merlin												1						1	0.00	0.00	0.00
Peregrine Falcon	2	2															1	5	0.01	0.00	0.02
Clapper Rail																	14	14	0.00	0.00	0.25
King Rail													1				1	2	0.00	0.00	0.02
Virginia Rail				1														1	0.00	0.00	0.00
Sora																	1	1	0.00	0.00	0.02
Common Moorhen								1			1						3	5	0.00	0.00	0.05
American Coot	1		5					2	4		2							14	0.02	0.01	0.00
Black-bellied Plover																					
Wilson's Plover																	64	64	0.00	0.00	1.16
																	7	7	0.00	0.00	0.13

	Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
																			total	mountains	piedmont	coastal
Semipalmated Plover																		285	285	0.00	0.00	5.18
Piping Plover																		1	1	0.00	0.00	0.02
Killdeer		1		9	6		12	27	43	28	39	24	16	13	12	14	52	34	330	0.06	0.32	0.62
American Oystercatcher																		12	12	0.00	0.00	0.22
Spotted Sandpiper		3		10	7		1	28	26	36	8	20		16		5	27	53	240	0.07	0.19	0.96
Solitary Sandpiper		1		6	2			33	25	19	8	17	2	5	1	4	14	4	141	0.03	0.15	0.07
Greater Yellowlegs				1						1						1	1	13	17	0.00	0.00	0.24
Willet																		28	28	0.00	0.00	0.51
Lesser Yellowlegs				1				8	1	2				3	1			34	50	0.00	0.02	0.62
Whimbrel																		4	4	0.00	0.00	0.07
Ruddy Turnstone																		20	20	0.00	0.00	0.36
Red Knot																		307	307	0.00	0.00	5.58
Sanderling																		272	272	0.00	0.00	4.95
Semipalmated Sandpiper																		221	221	0.00	0.00	4.02
Least Sandpiper				3				6	2	4	3	4		1	1		4	93	121	0.01	0.03	1.69
White-rumped Sandpiper								6										2	8	0.00	0.01	0.04
Pectoral Sandpiper												3							3	0.00	0.00	0.00

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
																		total	mountains	piedmont	coastal
Dunlin																	81	81	0.00	0.00	1.47
Stilt Sandpiper																	1	1	0.00	0.00	0.02
Short-billed Dowitcher																	82	82	0.00	0.00	1.49
Wilson's Snipe									2								1	3	0.00	0.00	0.02
American Woodcock												1						1	0.00	0.00	0.00
Laughing Gull																	1789	1789	0.00	0.00	32.53
Bonaparte's Gull								2			6						2	13	0.00	0.01	0.04
Ring-billed Gull						4		60	5	31	189	71	3	163	3		85	678	0.00	0.67	1.55
Herring Gull						2											153	155	0.00	0.00	2.78
Least Tern																	133	133	0.00	0.00	2.42
Gull-billed Tern																	1	1	0.00	0.00	0.02
Caspian Tern						2						1					4	7	0.00	0.00	0.07
Common Tern																	2	2	0.00	0.00	0.04
Forster's Tern						2		3									27	32	0.00	0.01	0.49
Royal Tern																	93	93	0.00	0.00	1.69
Sandwich Tern																	4	4	0.00	0.00	0.07
Black Skimmer																	52	52	0.00	0.00	0.95
Rock Pigeon	3		13	5		4	62	89	1	28	27	52	49	4	14	17	54	422	0.07	0.39	0.98
Eurasian Collared-Dove																	2	6	0.00	0.00	0.04
Mourning Dove	139	11	66	116	3	105	127	260	292	273	213	121	98	109	82	158	195	2368	1.19	2.09	3.55
Yellow-billed Cuckoo	4		1	2		1	1	1	2	19	4	2	4	2	5	3	29	80	0.02	0.05	0.53

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
	5/13	5/20	5/13	5/14	5/27	5/13	5/13	5/6	5/7	5/6	5/7	4/30	5/13	5/1	5/2	4/29	5/13	total	mountains	piedmont	coastal
Black-billed Cuckoo	1			1														2	0.01	0.00	0.00
Eastern Screech-Owl	2								2					1	2	2	3	12	0.01	0.01	0.05
Great Horned Owl	1		1					1	2	3	1	3	3	2	2	2	1	22	0.01	0.02	0.02
Barred Owl	2	2					1	4	2	14	2	12	3	4	4	6	3	59	0.01	0.06	0.05
Northern Saw-whet Owl					1													1	0.00	0.00	0.00
Common Nighthawk							3	2	6								3	14	0.00	0.01	0.05
Chuck-will's-widow						2			55	8	9			10	11	4	7	106	0.00	0.11	0.13
Whip-poor-will	2								24	14	1			22	16	4	5	88	0.01	0.09	0.09
Chimney Swift	20	40	20	129	10	57	175	404	37	406	89	79	77	33	10	89	17	1692	0.78	1.65	0.31
Ruby-throated Hummingbird	28	5	3	5	2	4	14	8	14	48	9	25	14	4	7	3	8	201	0.15	0.17	0.15
Belted Kingfisher	7		2	3			10	7	10	11	7	6	7	14	5	6	1	96	0.04	0.09	0.02
Red-headed Woodpecker								6	6	23	1	18	5	7	10	7	22	105	0.00	0.09	0.40
Red-bellied Woodpecker	24	10	10	18		14	76	96	37	193	62	79	87	56	33	45	40	880	0.22	0.88	0.73
Yellow-bellied Sapsucker	1	1		1														3	0.01	0.00	0.00
Downy Woodpecker	17	4	13	19	3	5	25	36	15	77	27	40	32	11	12	14	4	354	0.20	0.33	0.07

Date	Transylvania 5/13	Balsam Mis 5/20	Henderson 5/13	Buncombe 5/14	Black Mis 5/27	Catawba 5/13	Forsyth 5/13	Greensboro 5/6	Southern Pines 5/7	Chapel Hill 5/6	Jordan Lake 5/7	Durham 4/30	Wake 5/13	Falls Lake 5/1	Kerr Lake 5/2	Raven Rock 4/29	Onslow 5/13	birds per party-hr			
																		total	mountains	piedmont	coastal
Hairy Woodpecker	4	8		1	2	4	6	8	6	17	13	8	6	6	4	1	1	95	0.05	0.09	0.02
Red-cockaded Woodpecker									17								4	21	0.00	0.02	0.07
Northern Flicker	9	5	2	10		4	28	19	19	16	18	15	15	8	4	8	11	191	0.09	0.17	0.20
Pileated Woodpecker	28	8	11	16	6	5	4	2	15	22	23	9	5	7	8	8	22	199	0.24	0.12	0.40
Eastern Wood-Pewee	8	19	4	18	3	6	13	7	17	59	10	6	12	1	1	14	39	237	0.18	0.17	0.71
Acadian Flycatcher	5	2	4	16	6	1	4	2	11	88	13	4	29	2	9	9	27	232	0.12	0.20	0.49
Alder Flycatcher		2																2	0.01	0.00	0.00
Willow Flycatcher	21		25															46	0.16	0.00	0.00
Least Flycatcher		18																18	0.06	0.00	0.00
Eastern Phoebe	52	5	22	55	3	8	13	13	20	53	25	27	25	18	15	19		373	0.49	0.27	0.00
Great Crested Flycatcher	8		9	3		15	20	39	123	108	49	43	50	31	39	53	120	710	0.07	0.65	2.18
Eastern Kingbird	13		1	10		16	27	54	85	52	65	34	64	35	47	68	64	635	0.09	0.62	1.16
Scissor-tailed Flycatcher									1									1	0.00	0.00	0.00
Loggerhead Shrike						1			12				7			12		32	0.00	0.04	0.00
White-eyed Vireo	8	1	14	6		2	5	9	14	44	14	25	15	9	21	13	29	229	0.10	0.19	0.53
Yellow-throated Vireo			1	6			2	3	5	18	11	7	2	2	15	3	11	86	0.02	0.08	0.20

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
																		total	mountains	piedmont	coastal
Blue-headed Vireo	34	155	3	48	50	3	3	2	4	8	5	8		15	8		2	348	1.03	0.06	0.04
Warbling Vireo			1	7									1		1			10	0.03	0.00	0.00
Red-eyed Vireo	27	65	28	86	21	24	82	117	30	273	135	230	109	146	171	57	28	1629	0.80	1.56	0.51
Vireo sp													1					1	0.00	0.00	0.00
Blue Jay	84	13	44	85	4	49	111	167	77	155	82	70	69	41	38	67	54	1210	0.82	1.05	0.98
American Crow	279	65	171	237	10	33	120	243	143	281	265	141	63	133	82	146	93	2505	2.70	1.87	1.69
Fish Crow						4	5	34	55	75	18	19	36	20	33	22	35	356	0.00	0.36	0.64
Common Raven	8	20	1	2	3		1											35	0.12	0.00	0.00
Crow sp.																54		54	0.00	0.06	0.00
Horned Lark									4								1	5	0.00	0.01	0.00
Purple Martin	54		14			10	5	234	61	57	27	34	78	3	1	23	286	887	0.24	0.61	5.20
Tree Swallow	109	1	23	34				3	54	12	31	53	2	68	9			399	0.59	0.26	0.00
Northern Rough-winged Swallow	67	3	12	35		23	88	62	35	48	42	33	6	28	28	18	23	551	0.41	0.47	0.42
Bank Swallow										22	1	2						25	0.00	0.03	0.00
Cliff Swallow			10			40	27	1	5	12	192	39	43	8	15			392	0.04	0.43	0.00
Barn Swallow	170		131	86		62	279	167	100	55	164	87	148	62	21	135	172	1839	1.37	1.45	3.13
Carolina Chickadee	72	31	27	92	6	26	100	122	99	341	183	163	102	117	60	51	41	1633	0.81	1.55	0.75
Black-capped Chickadee		23																23	0.08	0.00	0.00
Chickadee sp.		6																6	0.02	0.00	0.00
Tufted Titmouse	60	30	26	86	4	23	79	87	110	361	183	150	96	116	78	57	42	1588	0.73	1.52	0.76
Red-breasted Nuthatch	2	11		15	35													65	0.22	0.00	0.00

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
																		total	mountains	piedmont	coastal
White-breasted Nuthatch	40	11	5	19	1	10	29	22	22	52	8	11	26	15	6	3	3	283	0.27	0.23	0.05
Brown-headed Nuthatch				10		5	20	34	49	78	35	28	29	57	29	12	29	415	0.04	0.43	0.53
Brown Creeper		12		6	12													30	0.11	0.00	0.00
Carolina Wren	71	21	66	107	3	38	108	172	121	585	228	236	139	122	98	93	72	2280	0.95	2.20	1.31
House Wren	24	1	4	18		2	21	19	3	61	10	15	12	1	2	7		200	0.17	0.17	0.00
Winter Wren		34		24	53													111	0.39	0.00	0.00
Sedge Wren			4	2														6	0.02	0.00	0.00
Marsh Wren			4															4	0.01	0.00	0.00
Golden-crowned Kinglet	21	163		41	197		6											428	1.50	0.01	0.00
Ruby-crowned Kinglet		1	1				1	2	1	3	3	7		3	5	1		28	0.01	0.03	0.00
Blue-Gray Gnatcatcher	4	3	27	35		15	45	54	101	359	129	215	94	102	138	54	80	1455	0.24	1.48	1.45
Eastern Bluebird	92		34	84		66	97	133	142	247	121	178	63	96	90	135	37	1615	0.74	1.55	0.67
Veery	1	93	2	20	35		9	4	3	5	2		2		1	5		182	0.54	0.04	0.00
Gray-cheeked Thrush							1				1							2	0.00	0.00	0.00
Swainson's Thrush			8	1		2	14	8	2	9	5	3	3	1	1	1		58	0.03	0.06	0.00
Hermit Thrush		2		11	17			1		1				1				33	0.11	0.00	0.00
Wood Thrush	27	11	7	31	4	5	20	47	31	117	51	38	29	36	50	19	6	529	0.28	0.50	0.11
American Robin	159	176	100	320	31	93	461	500	76	287	78	83	137	31	14	123	15	2684	2.79	2.14	0.27
Gray Catbird	44	53	27	55	18	9	44	101	51	119	28	60	23	23	6	60	40	761	0.70	0.59	0.73

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
	5/13	5/20	5/13	5/14	5/27	5/13	5/13	5/6	5/7	5/6	5/7	4/30	5/13	5/1	5/2	4/29	5/13	total	mountains	piedmont	coastal
Northern Mockingbird	44		41	86		86	79	220	109	219	75	67	55	34	40	145	88	1388	0.61	1.28	1.60
Brown Thrasher	40	3	29	22		23	35	67	48	86	71	18	22	11	22	32	34	563	0.33	0.49	0.62
European Starling	185	2	114	196		116	258	473	113	187	109	154	117	63	54	220	163	2524	1.76	2.12	2.96
Cedar Waxwing	174	124	141	201	13	94	506	461	458	115	176	55	218	32	71	90		2929	2.31	2.58	0.00
Blue-winged Warbler											1	2			1			4	0.00	0.00	0.00
Northern Parula	30	27	7	18	3	8	15	28	14	90	46	29	43	27	12	31	28	456	0.30	0.39	0.51
Yellow Warbler	8	6	8	10		5	14	18	3	8	13	6	6	5	5	3	7	125	0.11	0.10	0.13
Chestnut-sided Warbler	19	310	5	25	44		2	14		6	9	1	2	1				438	1.43	0.04	0.00
Magnolia Warbler	8		2	2			6	8	2	7	2	1	6	2				46	0.04	0.04	0.00
Cape May Warbler	4	5	2	1		3	7	1		2								25	0.04	0.01	0.00
Black-throated Blue Warbler	11	141	6	54	41	7	39	47	14	87	22	26	25	21	9	18	3	571	0.90	0.36	0.05
Yellow-rumped Warbler	4	2	9	8		3	40	65	42	83	228	285	9	201	321	73	1	1374	0.08	1.53	0.02
Black-throated Green Warbler	3	100	2	50	76	8	1	6		1	2	3	1	4				257	0.82	0.03	0.00
Blackburnian Warbler	2	36	4	27	49		3						1					122	0.42	0.00	0.00
Yellow-throated Warbler	8	1	3	4		1	3	6	43	26	27	11	18	10	36	16	39	252	0.06	0.22	0.71

	Date																birds per party-hr					
		Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	total	mountains	piedmont	coastal
Pine Warbler				7	2		1	21	36	63	201	172	90	55	136	111	37	34	966	0.03	1.05	0.62
Prairie Warbler						3	1	3	24	32	18	29	5	33	53	27	48	276	0.00	0.26	0.87	
Palm Warbler	2		3	3				1	2	1	1	6	1	7	1			28	0.03	0.02	0.00	
Bay-breasted Warbler			2	3			1		1									7	0.02	0.00	0.00	
Blackpoll Warbler	2	1	20	6		10	32	1	4		9		16			1	3	105	0.10	0.08	0.05	
Cerulean Warbler		1		10														11	0.04	0.00	0.00	
Black-and-white Warbler	8	78	9	48	17	2	14	2	19	18	17	35	11	17	8	19	3	325	0.57	0.18	0.05	
American Redstart	12	17	20	37	2		25	12	6	35	32	8	31	1	3	6	2	249	0.31	0.18	0.04	
Prothonotary Warbler			1			1	2	3	10	53	25	30	2	4	25	15	23	194	0.00	0.19	0.42	
Worm-eating Warbler	2	3		10		3	2	3		3	2	1		1	1	1	13	45	0.05	0.02	0.24	
Swainson's Warbler									1							1	6	8	0.00	0.00	0.11	
Ovenbird	14	81	4	64	33	2	14	19	26	141	78	47	16	75	82	27	15	738	0.69	0.60	0.27	
Northern Waterthrush	1		5				1	1	1		1	4	4			1		19	0.02	0.01	0.00	
Louisiana Waterthrush	5		1		3		1	3	1	7		3	4		1	9	4	42	0.03	0.03	0.07	
Kentucky Warbler				2				4	2	8	2	3				3	2	26	0.01	0.02	0.04	

Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
	5/13	5/20	5/13	5/14	5/27	5/13	5/13	5/6	5/7	5/6	5/7	4/30	5/13	5/1	5/2	4/29	5/13	total	mountains	piedmont	coastal
Connecticut Warbler			1															1	0.00	0.00	0.00
Common Yellowthroat	28	54	37	13	1	10	21	48	37	101	56	128	40	22	56	38	29	719	0.47	0.63	0.53
Hooded Warbler	26	34	8	54	5	3	1	4	9	50	17	4	4	20	8	17	10	274	0.45	0.16	0.18
Wilson's Warbler			1								1		1					3	0.00	0.00	0.00
Canada Warbler	4	105	2	70	55		4			1		1	2					244	0.84	0.01	0.00
Yellow-breasted Chat	7		8	3		5	3	13	14	41	30	57	9	15	51	29	33	318	0.06	0.30	0.60
Summer Tanager						6	1	3	34	143	58	28	22	36	69	30	46	476	0.00	0.49	0.84
Scarlet Tanager	12	48	6	34	2	8	24	35	3	73	28	7	18	12	15	5		330	0.36	0.26	0.00
Eastern Towhee	120	248	90	138	42	21	100	108	117	291	120	86	62	56	35	43	48	1725	2.26	1.18	0.87
Bachman's Sparrow									5								7	12	0.00	0.01	0.13
Chipping Sparrow	32	7	5	42		4	14	37	146	195	137	84	21	51	117	86	31	1009	0.30	1.01	0.56
Field Sparrow	6	11	21	22		14	10	19	12	20	19	51	3	3	44	19		274	0.21	0.24	0.00
Lark Sparrow									2									2	0.00	0.00	0.00
Savannah Sparrow			1					5	2	4	2	7	1		5	12	4	43	0.00	0.04	0.07
Grasshopper Sparrow						5	6	12	2	1		3			6	5		40	0.00	0.05	0.00
Saltmarsh Sharp-tailed Sparrow																	2	2	0.00	0.00	0.04
Seaside Sparrow																	6	6	0.00	0.00	0.11
Song Sparrow	198	40	138	224	4	2	72	116	6	57	15	15	3	2	1	2		895	2.14	0.33	0.00

	Date	Transylvania 5/13	Balsam Mis 5/20	Henderson 5/13	Buncombe 5/14	Black Mis 5/27	Catawba 5/13	Forsyth 5/13	Greensboro 5/6	Southern Pines 5/7	Chapel Hill 5/6	Jordan Lake 5/7	Durham 4/30	Wake 5/13	Falls Lake 5/1	Kerr Lake 5/2	Raven Rock 4/29	Onslow 5/13	birds per party-hr			
																			total	mountains	piedmont	coastal
Swamp Sparrow				2					2		4		67		1	5	1		82	0.01	0.09	
White-throated Sparrow		1	4	6	1			4	25	10	37	29	159		37	116	42		471	0.04	0.52	0.00
White-crowned Sparrow				1									1						2	0.00	0.00	0.00
Dark-eyed Junco		13	326	3	106	174													622	2.20	0.00	0.00
Sparrow sp.												2							2	0.00	0.00	0.00
Northern Cardinal		164	9	96	125		78	185	327	287	846	326	352	195	204	121	146	108	3569	1.40	3.48	1.96
Rose-breasted Grosbeak		4	54	1	23		2	11	9	2	8	9		2	2				127	0.29	0.05	0.00
Blue Grosbeak		1		2	4		4	13	15	58	28	52	14	15	12	18	39	29	304	0.02	0.30	0.53
Indigo Bunting		71	60	38	144	39	30	64	101	51	198	128	163	28	58	110	57	81	1421	1.25	1.12	1.47
Painted Bunting																		11	11	0.00	0.00	0.20
Bobolink		59		28	15		295	2		68	5	104					76	12	664	0.36	0.62	0.22
Red-winged Blackbird		142		58	151		4	116	89	74	91	74	46	51	11	17	46	101	1071	1.24	0.70	1.84
Eastern Meadowlark		23		15	32	1	35	11	26	73	33	18	17	18	6	16	63	22	409	0.25	0.36	0.40
Common Grackle		153	6	59	97		110	254	485	156	323	235	140	128	107	76	212	147	2688	1.12	2.53	2.67
Boat-tailed Grackle																	109		109	0.00	0.00	1.98
Brown-headed Cowbird		27	3	13	40		32	64	101	73	164	123	100	51	68	36	65	44	1004	0.29	1.00	0.80
Blackbird sp.												30							30	0.00	0.03	0.00
Orchard Oriole		7		2	10		5	4	18	16	23	27	30	10	5	21	23	36	237	0.07	0.21	0.65

	Date	Transylvania	Balsam Mis	Henderson	Buncombe	Black Mis	Catawba	Forsyth	Greensboro	Southern Pines	Chapel Hill	Jordan Lake	Durham	Wake	Falls Lake	Kerr Lake	Raven Rock	Onslow	birds per party-hr			
																			total	mountains	piedmont	coastal
Baltimore Oriole	5/13	2			14		3	16	15		7	1		2		2	1		63	0.06	0.05	0.00
Purple Finch	5/13	2		4					2										8	0.02	0.00	0.00
House Finch	5/13	41		25	102		19	67	116	51	202	45	44	77	24	15	35	17	880	0.60	0.79	0.31
Red Crossbill	5/13				1	18													19	0.07	0.00	0.00
Pine Siskin	5/13		9		9	6													24	0.09	0.00	0.00
American Goldfinch	5/13	206	36	59	145	1	25	178	296	102	471	195	238	128	200	105	47	7	2439	1.58	2.25	0.13
House Sparrow	5/13	9		16	38		11	17	24	22	98	24	35	18	22	3	39	73	449	0.22	0.36	1.33
total species		118	81	120	115	53	102	123	130	134	125	126	119	116	112	118	119	156	232			
total birds		4010	3163	2474	4879	1186	2109	5430	8428	5154	11384	7024	6371	4041	4083	3852	4094	8298	85980			
# participants		38	17	15	19	11	7	40	35	24	45	51	18	29	13	9	18	19	408			
total party hours		65.00	73.50	38.25	74.20	31.25	25.00	82.50	121.00	75.50	151.30	117.50	70.50	61.50	77.25	44.50	54.25	55.00	1218.00			
total party miles		330.0	282.7	169.2	386.3	59.0	210.0	134.0	417.3	433.25	357.0	246.6	148.5	149.5	139.5	85.0	340.5	356.0	4244.35			
hours on foot		18.00	47.50	21.25	27.00	19.50	6.00	74.50	92.50	22.00	116.75	86.50	62.75	53.50	64.75	37.25	28.00	30.00	807.75			
hours by car		47.00	26.25	17.00	46.20	11.75	19.00	8.00	28.50	53.50	27.75	25.50	7.00	8.00	12.50	5.50	26.50	21.50	391.45			
hours by bicycle											1.50	0.50							2.00			
hours by canoe/kayak/boat											5.30	5.00						3.50	13.80			
hours ATV																			0.00			
miles on foot		21.00	51.70	14.20	21.00	21.00	3.00	26.00	60.00	18.25	93.00	54.80	53.50	47.50	67.50	23.00	19.50	19.50	614.45			
miles by car		309.0	181.0	155.0	365.3	38.0	207.0	107.0	357.3	415.0	252.0	182.3	95.0	102.0	72.00	62.00	321.00	337.50	3558.40			
miles by bicycle											6.50	5.00							11.50			

	birds per party-hr																			
	total																			
	mountains																			
	piedmont																			
	coastal																			
Date	5/13	5/20	5/13	5/14	5/27	5/13	5/13	5/6	5/7	5/6	5/7	4/30	5/13	5/1	5/2	4/29	5/13			
miles																				
canoe/kayak/boat										5.50	4.50						22.00			
miles by ATV																				
hours owling						0.50		4.25	5.75	3.50	0.85	3.50			1.75	1.25	2.50			
miles owling						1.00			12.00	3.50		12.00			12.00	10.25	18.80			
feeder hours	21.00					4.00			13.00	36.00		0.50	6.50							